

IN THE CLAIMS

2 Claims 1 - 10 (Cancelled)

11. (Previously presented) A fixture shaped and configured to be screwed firmly
2 into bone tissue, said fixture comprising:

 a generally cylindrical anchoring portion formed with an insertion end and having an
4 external screw thread, a cavity which opens out at said insertion end, and a plurality of
 through-penetrating slots extending from said insertion end, wherein each said slot connects
6 the cavity with the outside of said anchoring portion and wherein each said slot is defined by
 a leading slot wall surface facing each said slot and a trailing slot wall surface facing each
8 said slot, where said leading and trailing wall surfaces relate to the direction of rotation
 defined by said screw thread when screwing in the fixture, such that said leading slot wall
10 surface is the one that is ahead of each said slot and said trailing slot wall surface is behind
 each said slot in said direction of rotation, wherein at least the radially outermost part of said
12 trailing slot wall surface defines a cutting edge at an angle α with the radial direction and
 slopes obliquely forwardly from within and outwardly in said direction of rotation, whereby
14 the cutting edge formed between said trailing slot wall surface and the outside of said
 anchoring portion define an acute angle.

12. (Previously presented) The fixture according to claim 11, wherein the whole
2 of the trailing slot wall surface defines the same angle α .

13. (Previously presented) The fixture according to claim 12, wherein said
2 leading slot wall surface also slopes obliquely forward from within and outward in said
direction of rotation.

14 (Previously presented) The fixture according to claim 13, wherein said
2 leading and trailing slot wall surfaces are parallel with one another.

15. (Cancelled)

16. (Previously presented) The fixture according to claim 12, wherein the angle
2 α is $20^\circ - 40^\circ$ at the radially outer end of the trailing slot wall surface.

17. (Previously presented) The fixture according to claim 13, wherein the angle
2 α is $20^\circ - 40^\circ$ at the radially outer end of the trailing slot wall surface.

18. (Previously presented) The fixture according to claim 14, wherein the angle
2 α is $20^\circ - 40^\circ$ at the radially outer end of the trailing slot wall surface.

19. (Previously presented) The fixture according to claim 11, wherein the angle
2 α is $27^\circ - 33^\circ$ at the radially outer end of the trailing slot wall surface.

20. (Previously presented) The fixture according to claim 12, wherein the angle
2 α is $27^\circ - 33^\circ$ at the radially outer end of the trailing slot wall surface.

21. (Cancelled)

22. (Previously presented) The fixture according to claim 12, wherein the slots
2 are 3-10 in number.

23. (Currently amended) The fixture according to claim 11 45, wherein the slots
2 are 3-10 in number.

24. (Previously presented) The fixture according to claim 11, wherein the slots
2 are 5-7 in number.

25. (Previously presented) The fixture according to claim 12, wherein the slots
2 are 5-7 in number.

26. (Currently amended) The fixture according to claim 13 45, wherein the slots
2 are 5-7 in number.

27. (Previously presented) The fixture according to claim 11, wherein the cavity
2 is circular in cross-section and widens conically in a direction toward said insertion end.

28. (Previously presented) The fixture according to claim 12, wherein the cavity
2 is circular in cross-section and widens conically in a direction toward said insertion end.

29. (Previously presented) The fixture according to claim 13, wherein the cavity
2 is circular in cross-section and widens conically in a direction toward said insertion end.

30. (Previously presented) The fixture according to claim 11, wherein the slot
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance
between the two slots on the outside of the fixture.

31. (Previously presented) The fixture according to claim 12, wherein the slot
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance
between the two slots on the outside of the fixture.

32. (Previously presented) The fixture according to claim 13, wherein the slot
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance
between the two slots on the outside of the fixture.

33. (Previously presented) The fixture according to claim 27, wherein the slot
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance
between the two slots on the outside of the fixture.

34. (Currently amended) The fixture according to claim 11, wherein ~~that~~ the

2 fixture is made of titanium.

35. (Cancelled)

36. (Previously presented) The fixture according to claim 11, wherein the angle

2 α is 20° - 40° at the radially outer end of the trailing slot wall surface.

37. (New) A fixture shaped and configured to be screwed longitudinally into

2 hollow or tubular bone tissue, said fixture comprising:

a generally cylindrical anchoring portion formed with an insertion end and having an

4 external screw thread wherein the ratio of the length of the anchoring portion to the diameter

of the radially outermost portion of the external screw thread is greater than three, a cavity

6 which opens out at said insertion end, and a plurality of through-penetrating slots extending

from said insertion end, wherein each said slot connects the cavity with the outside of said

8 anchoring portion and wherein each said slot is defined by a leading slot wall surface facing

each said slot and a trailing slot wall surface facing each said slot, where said leading and

10 trailing wall surfaces relate to the direction of rotation defined by said screw thread when

screwing in the fixture, such that said leading slot wall surface is the one that is ahead of each

12 said slot and said trailing slot wall surface is behind each said slot in said direction of

rotation, wherein at least the radially outermost part of said trailing slot wall surface defines a

14 cutting edge at an angle α with the radial direction and slopes obliquely forwardly from

within and outwardly in said direction of rotation, whereby the cutting edge formed between
16 said trailing slot wall surface and the outside of said anchoring portion define an acute angle.